

STIC-FPAS

From: Kemmerer, Elizabeth  
Sent: Thursday, August 28, 2003 2:  
To: STIC-FPAS  
Subject: translation request

PTO 2003-5274

S.T.I.C. Translations Branch

Translation Requester Information:

Requester's Name: Elizabeth Kemmerer

U.S. Serial Number: 09/914641

Telephone Number: 703-308-2673

Office Location: CM1-10B17

Art Unit or Organization Name: Art Unit 1646

Is this for the Board of Patent Appeals?: No

Date needed by (please BE SPECIFIC): 9/11/03

Document Identification (Select One):

Patent:

Document Number: JP 63-146829

Country Code: JP

Publication Date: June 18, 1988

Language: Japanese

Article:

Author:

Language:

Country:

Other:

Type of Document:

Language:

Country:

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2003 AUG 28 PH 3:53

TRANSLATIONS DIVISION  
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questions:

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Will you accept an English Language Equivalent (Yes/No)? Yes

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(Translator will contact you to set up a mutually convenient time.)

Would you like a Human Assisted Machine Translation (Yes/No)? That

KCT

Copy/Search

Processor: GP

Date Assigned: 8-28-03

Date filled: 8-28-03

Equivalent found (Y/N): NO

Doc. No.:

Country:

Translation: 8/28/03

Date logged in:

PTO est. words: 397/10

No. of pages: 20

In-house trans. avail:

In-House:

Translator:

Assigned:

Returned:

Contractor:

Name: SC

Priority: 5

Sent: 8/29/03

Returned: 9-5-03

**Kemmerer, Elizabeth**

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To: STIC-FPAS  
Subject: translation request

Translation Requester Information:

Requester's Name: Elizabeth Kemmerer

U.S. Serial Number: 09/914641

Telephone Number: 703-308-2673

Office Location: CM1-10B17

Art Unit or Organization Name: Art Unit 1646

Is this for the Board of Patent Appeals?: No

Date needed by (please BE SPECIFIC): 9/11/03, if possible

Document Identification (Select One):

Patent:

Document Number: WO 94/14465 A1

Country Code: WO

Publication Date: July 7, 1994

Language: German

Article:

Author:

Language:

Country:

Other:

Type of Document:

Language:

Country:

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Will you accept an English Language Equivalent (Yes/No)? Yes

Would you like to review this document with a translator prior to having a complete written translation (Yes/No)? No (I know it's relvevat from the European Written Opinion)

(Translator will contact you to set up a mutually convenient time.)

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(Human Assisted Machine Translation provided by Derwent/Schreiber is the

default

turnaround.) for Japanese patents from 1993 onwards, with an average 5-day

Elizabeth (Betsy) Kemmerer  
Art Unit 1646  
308-2673  
CM1-10B17  
Mailbox: 10D19

STIC-FPAS

From: Kemmerer, Elizabeth  
Sent: Thursday, August 28, 2003 2:16  
To: STIC-FPAS  
Subject: translation request

PTO 2003-5299

S.T.I.C. Translations Branch

Translation Requester Information:

Requester's Name: Elizabeth Kemmerer

U.S. Serial Number: 09/914641

Telephone Number: 703-308-2673

Office Location: CM1-10B17

Art Unit or Organization Name: Art Unit 1646

Is this for the Board of Patent Appeals?: No

Date needed by (please BE SPECIFIC): 9/11/03, if possible

Document Identification (Select One):

Patent:

Document Number: WO 94/14465 A1

Country Code: WO

Publication Date: July 7, 1994

Language: German

Article:

Author:

Language:

Country:

Other:

Type of Document:

Language:

Country:

*Copy E-Mail 9-11-03*

questions:

To assist us in providing the most cost-effective service, please answer these

Will you accept an English Language Equivalent (Yes/No)? Yes

Would you like to review this document with a translator prior to having a complete written translation (Yes/No)? No (I know it's relevant from the

European Written Opinion)

(Translator will contact you to set up a mutually convenient time.)

Copy/Search

Processor: GP  
Date Assigned: 8-28-03  
Date filed: 8-28-03  
Equivalent found (Y/N): Y  
Doc. No.: 5919443  
Country: US

Translation:

Date logged in: 9-11-03  
PTO est. words: 406901  
No. of pages: 44  
In-house trans. avail:

In-House:   
Translator:   
Assigned:   
Returned:

Contractor: FLS  
Name: FLS  
Priority: 9-11-03  
Sent: 9-11-03  
Returned: 9-11-03

**Kemmerer, Elizabeth**

---

To: STIC-FPAS  
Subject: translation request

Translation Requester Information:

Requester's Name: Elizabeth Kemmerer

U.S. Serial Number: 09/914641

Telephone Number: 703-308-2673

Office Location: CM1-10B17

Art Unit or Organization Name: Art Unit 1646

Is this for the Board of Patent Appeals?: No

Date needed by (please BE SPECIFIC): 9/11/03

Document Identification (Select One):

Patent:

Document Number: JP 63-146829

Country Code: JP

Publication Date: June 18, 1988

Language: Japanese

Article:

Author:

Language:

Country:

Other:

Type of Document:

Language:

Country:

To assist us in providing the most cost-effective service, please answer these questions:

Will you accept an English Language Equivalent (Yes/No)? Yes

Would you like to review this document with a translator prior to having a complete written translation (Yes/No)? No  
(Translator will contact you to set up a mutually convenient time.)

Would you like a Human Assisted Machine Translation (Yes/No)? That

would be fine.

(Human Assisted Machine Translation provided by Derwent/Schreiber is the

default

turnaround.) for Japanese patents from 1993 onwards, with an average 5-day

Elizabeth (Betsy) Kemmerer  
Art Unit 1646  
308-2673  
CM1-10B17  
Mailbox: 10D19



Dynamic Search: INPADOC/Family and Legal Status, Derwent World Patents Index

Records for: pn=wo 9414465

save as alert...

save strategy only...

Output

Format: Long

Output as: Browser

display/send

Modify

refine search

back to picklist

select  
all none

Records 1-2 of 2 In long Format

1.

## 2/34/1 (Item 1 from file: 351)

009941780

WPI Acc No: 1994-209493/199426

**Freeze-dried granulocyte colony-stimulating factor compns -  
stabilised with maltose or amino sugar**

Patent Assignee: BOEHRINGER MANNHEIM GMBH (BOEF ); ROCHE DIAGNOSTICS GMBH (HOFF )

Inventor: MICHAELIS U; RUDOLPH R; WINTER G; WOOG H; WINTER W; RAINER R; UWE M

Number of Countries: 035 Number of Patents: 015

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4242863	A1	19940623	DE 4242863	A	19921218	199426 B
WO 9414465	A1	19940707	WO 93EP3543	A	19931215	199428
AU 9468086	A	19940719	AU 9468086	A	19931215	199439
EP 674524	A1	19951004	WO 93EP3543	A	19931215	199544
			EP 94902772	A	19931215	
JP 8504784	W	19960521	WO 93EP3543	A	19931215	199646
			JP 94514766	A	19931215	
HU 74269	T	19961128	WO 93EP3543	A	19931215	199712
			HU 951764	A	19931215	
AU 676573	B	19970313	AU 9468086	A	19931215	199719
NZ 258912	A	19970624	NZ 258912	A	19931215	199732
			WO 93EP3543	A	19931215	
EP 674524	B1	19980415	WO 93EP3543	A	19931215	199819
			EP 94902772	A	19931215	
DE 59308415	G	19980520	DE 508415	A	19931215	199826
			WO 93EP3543	A	19931215	
			EP 94902772	A	19931215	
ES 2117781	T3	19980816	EP 94902772	A	19931215	199839
US 5919443	A	19990706	WO 93EP3543	A	19931215	199933
			US 95454186	A	19950615	
SG 66740	A1	19990921	SG 961884	A	19931215	199945
KR 266145	B1	20000915	WO 93EP3543	A	19931215	200134
			KR 95702588	A	19950619	
HU 220256	B	20011128	WO 93EP3543	A	19931215	200206
			HU 951764	A	19931215	

Priority Applications (No Type Date): DE 4242863 A 19921218

Cited Patents: No-Citns.; DE 3723781; EP 373679; EP 528313; EP 528314; WO 9313752

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4242863	A1		12	A61K-009/08	
WO 9414465	A1 G		42	A61K-037/02	

Designated States (National): AU BG BR CA CZ FI HU JP KR NO NZ PL RO RU

SK UA US  
 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL  
 PT SE  
 AU 9468086 A A61K-037/02 Based on patent WO 9414465  
 EP 674524 A1 G A61K-037/02 Based on patent WO 9414465  
 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU NL  
 PT SE  
 JP 8504784 W 38 A61K-038/00 Based on patent WO 9414465  
 HU 74269 T A61K-038/18 Based on patent WO 9414465  
 AU 676573 B A61K-038/19 Previous Publ. patent AU 9468086  
 Based on patent WO 9414465  
 NZ 258912 A A61K-009/14 Based on patent WO 9414465  
 EP 674524 B1 G 24 A61K-038/00 Based on patent WO 9414465  
 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU NL  
 PT SE  
 DE 59308415 G A61K-038/00 Based on patent EP 674524  
 Based on patent WO 9414465  
 ES 2117781 T3 A61K-038/00 Based on patent EP 674524  
 US 5919443 A A61K-045/05 Based on patent WO 9414465  
 SG 66740 A1 A61K-038/19  
 KR 266145 B1 A61K-038/00  
 HU 220256 B A61K-038/18 Previous Publ. patent HU 74269  
 Based on patent WO 9414465

Abstract (Basic): DE 4242863 A

Freeze-dried granulocyte colony-stimulating factor (G-CSF) compsns.  
 contg. maltose or an amino sugar are new.

Also claimed are aq. compsns. obtainable by redissolving a  
 freeze-dried compsn. as above. Also claimed is the prodn. of a  
 freeze-dried compsn. as above by preparing an aq. compsn. contg. G-CSF,  
 maltose or an amino sugar, and opt. other additives, and freeze drying  
 the aq. compsn.

The freeze-dried compsns. may also contains surfactants, amino  
 acids (esp. arginine or phenylalanine) and additives selected from  
 antioxidants, complexing agents, buffers, acids, bases, and isotonic  
 agents, but no protein or polymer additives. The aq. compsns. have a pH  
 of 6.5-8 or 3-5.

USE/ADVANTAGE - The compsns. are useful as medicaments. The freeze  
 dried compsns. have good storage stability, esp. freeze-thaw stability.  
 Dwg.0/0

Abstract (Equivalent): EP 674524 B

Freeze-dried granulocyte colony-stimulating factor (G-CSF) compsns.  
 contg. maltose or an amino sugar are new.

Also claimed are aq. compsns. obtainable by redissolving a  
 freeze-dried compsn. as above. Also claimed is the prodn. of a  
 freeze-dried compsn. as above by preparing an aq. compsn. contg. G-CSF,  
 maltose or an amino sugar, and opt. other additives, and freeze drying  
 the aq. compsn.

The freeze-dried compsns. may also contains surfactants, amino  
 acids (esp. arginine or phenylalanine) and additives selected from  
 antioxidants, complexing agents, buffers, acids, bases, and isotonic  
 agents, but no protein or polymer additives. The aq. compsns. have a pH  
 of 6.5-8 or 3-5.

USE/ADVANTAGE - The compsns. are useful as medicaments. The freeze  
 dried compsns. have good storage stability, esp. freeze-thaw stability.  
 Dwg.0/0

Derwent Class: B03; B04

International Patent Class (Main): A61K-009/08; A61K-009/14; A61K-037/02;  
 A61K-038/00; A61K-038/18; A61K-038/19; A61K-045/05

International Patent Class (Additional): A61K-047/18; A61K-047/24;



A61K-047/26; A61K-047/36; C07K-014/535

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□ 2.

2/34/2 (Item 2 from file: 345)

17399476

Basic Patent (No,Kind,Date): DE 4242863 A1 19940623

PATENT FAMILY:

AUSTRIA (AT)

Patent (No,Kind,Date): AT 165007 E 19980515

STABILE LYOPHILISIERTE PHARMAZEUTISCHE ZUBEREITUNGEN VON G-CSF (German)

Patent Assignee: BOEHRINGER MANNHEIM GMBH (DE)

Author (Inventor): MICHAELIS UWE (DE); RUDOLPH RAINER (DE); WINTER GERHARD (DE); WOOG HEINRICH (DE)

Priority (No,Kind,Date): DE 4242863 A 19921218

Applic (No,Kind,Date): EP 94902772 A 19931215

Addnl Info: 00674524 19980415

IPC: \* A61K-038/00; A61K-009/14; A61K-047/18; A61K-047/26

CA Abstract No: \* 121(10)117713T

Derwent WPI Acc No: \* C 94-209493

Language of Document: German

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 9468086 A1 19940719

STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS G-CSF (English)

Patent Assignee: BOEHRINGER MANNHEIM GMBH

Author (Inventor): MICHAELIS UWE; RUDOLPH RAINER; WINTER GERHARD; WOOG HEINRICH

Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W 19931215

Applic (No,Kind,Date): AU 9468086 A 19931215

IPC: \* A61K-037/02; A61K-009/14; A61K-047/18; A61K-047/26

CA Abstract No: \* 121(10)117713T

Derwent WPI Acc No: \* C 94-209493

Language of Document: English

Patent (No,Kind,Date): AU 676573 B2 19970313

STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS G-CSF (English)

Patent Assignee: BOEHRINGER MANNHEIM GMBH

Author (Inventor): MICHAELIS UWE; RUDOLPH RAINER; WINTER GERHARD; WOOG HEINRICH

Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W 19931215

Applic (No,Kind,Date): AU 9468086 A 19931215

IPC: \* A61K-009/14; A61K-047/18; A61K-047/26; A61K-038/19

CA Abstract No: \* 121(10)117713T

Derwent WPI Acc No: \* C 94-209493

Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 4242863 A1 19940623

STABILE LYOPHILISIERTE PHARMAZEUTISCHE ZUBEREITUNGEN VON G-CSF (German)

Patent Assignee: BOEHRINGER MANNHEIM GMBH (DE)

Author (Inventor): MICHAELIS UWE DIPL BIOL DR (DE); RUDOLPH RAINER PROF DIPL CHEM (DE); WINTER WERNER DR (DE); WOOG HEINRICH DR (DE)

Priority (No,Kind,Date): DE 4242863 A 19921218  
Applic (No,Kind,Date): DE 4242863 A 19921218  
IPC: \* A61K-009/08  
CA Abstract No: \* 121(10)117713T; 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493; C 94-209493  
Language of Document: German  
Patent (No,Kind,Date): DE 59308415 C0 19980520  
STABILE LYOPHILISIERTE PHARMAZEUTISCHE ZUBEREITUNGEN VON G-CSF (German)  
Patent Assignee: BOEHRINGER MANNHEIM GMBH (DE)  
Author (Inventor): MICHAELIS UWE (DE); RUDOLPH RAINER (DE); WINTER GERHARD (DE); WOOG HEINRICH (DE)  
Priority (No,Kind,Date): DE 59308415 A 19931215; DE 4242863 A 19921218; WO 93EP3543 W 19931215  
Applic (No,Kind,Date): DE 59308415 A 19931215  
IPC: \* A61K-038/00; A61K-009/14; A61K-047/18; A61K-047/26  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: German  
DENMARK (DK)  
Patent (No,Kind,Date): DK 674524 T3 19990201  
STABILE, LYOFILISERED, FARMACEUTISKE SAMMENSAETNINGER AF G-CSF (Danish)  
Patent Assignee: ROCHE DIAGNOSTICS GMBH (DE); BOEHRINGER MANNHEIM GMBH (DE)  
Author (Inventor): MICHAELIS UWE (DE); RUDOLPH RAINER (DE); WINTER GERHARD (DE); WOOG HEINRICH (DE)  
Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W 19931215  
Applic (No,Kind,Date): DK 9494902772 A 19931215  
IPC: \* A61K-037/02; A61K-038/00; A61K-009/14; A61K-047/18; A61K-047/26  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: Danish  
EUROPEAN PATENT OFFICE (EP)  
Patent (No,Kind,Date): EP 674524 A1 19951004  
STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS G-CSF. (English; French; German)  
Patent Assignee: BOEHRINGER MANNHEIM GMBH (DE)  
Author (Inventor): MICHAELIS UWE (DE); RUDOLPH RAINER (DE); WINTER GERHARD (DE); WOOG HEINRICH (DE)  
Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W 19931215  
Applic (No,Kind,Date): EP 94902772 A 19931215  
Designated States: (National) AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; NL; PT; SE  
IPC: \* A61K-038/00; A61K-009/14; A61K-047/18; A61K-047/26  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: German  
Patent (No,Kind,Date): EP 674524 B1 19980415  
STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS G-CSF (English; French; German)  
Patent Assignee: BOEHRINGER MANNHEIM GMBH (DE)  
Author (Inventor): MICHAELIS UWE (DE); RUDOLPH RAINER (DE); WINTER GERHARD (DE); WOOG HEINRICH (DE)  
Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W 19931215  
Applic (No,Kind,Date): EP 94902772 A 19931215

Designated States: (National) AT; BE; CH; DE; DK; ES; FR; GB; GR; IE;  
IT; LI; LU; NL; PT; SE  
IPC: \* A61K-038/00; A61K-009/14; A61K-047/18; A61K-047/26  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: German

## SPAIN (ES)

Patent (No,Kind,Date): ES 2117781 T3 19980816  
PREPARACIONES FARMACEUTICAS LIOFILIZADAS Y ESTABLES DE G-CSF. (Spanish)  
Patent Assignee: BOEHRINGER MANNHEIM GMBH  
Author (Inventor): MICHAELIS UWE (DE); RUDOLPH RAINER (DE); WINTER  
GERHARD (DE); WOOG HEINRICH (DE)  
Priority (No,Kind,Date): DE 4242863 A 19921218  
Applic (No,Kind,Date): ES 94902772 EP 19931215  
Addnl Info: 0674524 EP patent valid in AT  
IPC: \* A61K-038/00; A61K-009/14; A61K-047/18; A61K-047/26  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: Spanish

## HUNGARY (HU)

Patent (No,Kind,Date): HU 9501764 A0 19950828  
STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS G-CSF (English)  
Patent Assignee: BOEHRINGER MANNHEIM GMBH (DE)  
Author (Inventor): RUDOLPH RAINER (DE); WOOG HEINRICH (DE); WINTER  
GERHARD (DE); MICHAELIS UWE (DE)  
Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W  
19931215  
Applic (No,Kind,Date): HU 959501764 A 19931215  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: Hungarian  
Patent (No,Kind,Date): HU T74269 A2 19961128  
STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS OF G-CSF (English)  
Patent Assignee: BOEHRINGER MANNHEIM GMBH (DE)  
Author (Inventor): MICHAELIS UWE (DE); RUDOLPH RAINER (DE); WINTER  
GERHARD (DE); WOOG HEINRICH (DE)  
Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W  
19931215  
Applic (No,Kind,Date): HU 959501764 A 19931215  
IPC: \* A61K-038/18; A61K-047/36  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: Hungarian  
Patent (No,Kind,Date): HU 220256 B 20011128  
STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS OF G-CSF AND PROCESS FOR  
PRODUCING THEM (English)  
Patent Assignee: ROCHE DIAGNOSTICS GMBH (DE)  
Author (Inventor): MICHAELIS UWE (DE); RUDOLPH RAINER (DE); WINTER  
GERHARD (DE); WOOG HEINRICH (DE)  
Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W  
19931215  
Applic (No,Kind,Date): HU 959501764 A 19931215  
IPC: \* A61K-038/18  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: Hungarian

## JAPAN (JP)

Patent (No,Kind,Date): JP 8504784 T2 19960521  
Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W  
19931215  
Applic (No,Kind,Date): JP 93514766 A 19931215  
IPC: \* A61K-038/00; A61K-047/18; A61K-047/26  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: Japanese

## KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 266145 B1 20000915  
STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS G-CSF (English)  
Patent Assignee: ROCHE DIAGNOSTICS GMBH (DE)  
Author (Inventor): MICHAELIS UWE (DE); RUDOLF RAINER (DE); WINTER  
GERHARD (DE); WOOG HEINRICH (DE)  
Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W  
19931215  
Applic (No,Kind,Date): KR 95702588 T 19950619  
IPC: \* A61K-038/00; A61K-009/14  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: Korean

## NEW ZEALAND (NZ)

Patent (No,Kind,Date): NZ 258912 A 19970624  
LYOPHILISED PREPARATION OF G-CSF AND A SUGAR (English)  
Patent Assignee: BOEHRINGER MANNHEIM GMBH  
Author (Inventor): WINTER GERHARD; WOOG HEINRICH; RUDOLPH RAINER;  
MICHAELIS UWE  
Priority (No,Kind,Date): DE 4242863 A 19921218  
Applic (No,Kind,Date): NZ 258912 A 19931215  
IPC: \* A61K-009/14; A61K-038/19; A61K-047/26  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: English

## SINGAPORE (SG)

Patent (No,Kind,Date): SG 6600740 A1 19990921  
STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS OF G-CSF (English)  
Patent Assignee: ROCHE DIAGNOSTICS GMBH  
Author (Inventor): MICHAELIS UWE; RUDOLPH RAINER; WINTER GERHARD; WOOG  
HEINRICH  
Priority (No,Kind,Date): DE 4242863 A 19921218  
Applic (No,Kind,Date): SG 9601884 A 19931215  
IPC: \* A61K-038/19; A61K-047/24; C07K-014/535  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: English

## UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5919443 A 19990706  
STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS OF G-CSF (English)  
Patent Assignee: BOEHRINGER MANNHEIM GMBH (DE)  
Author (Inventor): MICHAELIS UWE (DE); RUDOLPH RAINER (DE); WINTER  
GERHARD (DE); WOOG HEINRICH (DE)  
Priority (No,Kind,Date): DE 4242863 A 19921218; WO 93EP3543 W  
19931215  
Applic (No,Kind,Date): US 454186 A 19950615  
National Class: \* 424085100; 530351000

IPC: \* A61K-045/05  
CA Abstract No: \* 121(10)117713T  
Derwent WPI Acc No: \* C 94-209493  
Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9414465 A1 19940707

STABLE LYOPHILIZED PHARMACEUTICAL PREPARATIONS G-CSF (English)

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